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Name, Applicat:

Oron YACOBY-ZEEVI et al

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Serial No.:

10/559,925

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Filed: 02-May-2006

888

**For: HEPARANASE ACTIVITY NEUTRALIZING
ANTI-HEPARANASE MONOCLONAL
ANTIBODY AND OTHER ANTI-HEPARANASE
ANTIBODIES**

Group Art Unit: 1644

Examiner: DIBRINO, MARIANNE NMN

888

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Attorney
Docket: 30337

INFORMATION DISCLOSURE STATEMENT

Sir:

Enclosed is a PTO Form 1449 which lists citations which may be material to the patentability and examination of the above identified application. Also enclosed are copies of all other references have been received by the Examiner through corresponding applications. These are submitted in compliance with the duty of disclosure defined in 37 CFR 1.56. The Examiner is requested to make these citations of official record in this application.

Applicant requests that MPEP 609 III A(2)(E) be complied with and the examiner consider information which has been considered by the Office in a parent applications thereof. A listing of the references cited in those applications follows on the attached PTO/SB/08A. Applicant respectfully requests that they be made of record in the instant application.

This application is a National Phase Application of PCT Application No. PCT/IL2004/000477 having International Filing Date of June 3, 2004, which claims the benefit of U.S. Patent Application No. 10/456,573, filed on June 9, 2003 and U.S. Patent Application No. 10/645,659, filed on August 22, 2003. The contents of the above Applications are all incorporated herein by reference.

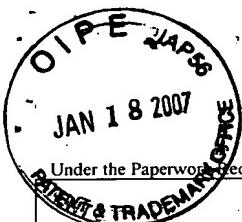
This Information Disclosure Statement under 37 CFR 1.56 is not to be construed as a representation that a search has been made, that additional matter which is material to the examination of this application does not exist, or that any or more of these citations constitutes prior art.

Respectfully submitted,



Martin D. Moynihan
Registration No. 40,338

Dated: January 11, 2007



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PTO/SB/08a (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Complete if Known

Application Number	10/559,925
Filing Date	May 02, 2006
First Named Inventor	Oron YACOBY-ZEEVI et al
Art Unit	1644
Examiner Name	DIBRINO, MARIANNE NMN

Sheet 1 of 27 Attorney Docket Number 30337

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	1	US-5,997,863	07-7-1999	Zimmermann et al.	
	2	US-5,688,679	11-18-1997	Powell	
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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Complete if Known	
				Application Number	10/559,925
				Filing Date	May 02, 2006
				First Named Inventor	Oron YACOBY-ZEEVI et al
				Art Unit	1644
				Examiner Name	DIBRINO, MARIANNE NMN
Sheet		2	of	27	Attorney Docket Number
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**INFORMATION DISCLOSURE
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Application Number	10/559,925
Filing Date	May 02, 2006
First Named Inventor	Oron YACOBY-ZEEVI et al
Art Unit	1644
Examiner Name	DIBRINO, MARIANNE NMN

Sheet 3 of 27

Attorney Docket Number 30337

U.S. PATENT DOCUMENTS

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Examiner Initials*	Cite No. ¹	Foreign Patent Documents	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ₆
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
85	PCT WO 95/04158		09-9-1995	Hoogewerf et al.		
86	PCT WO 99/21975		06-6-1999	Freeman et al.		
87	PCT WO 91/19197		12-12-1991	Nicolson et al.		
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97	EP 0254067		01-27-1988	Cohen et al.		

Examiner Signature _____ Date Considered _____

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			Group Art Unit	1644
			Examiner Name	DIBRINO, MARIANNE NMN
Sheet	5	Of	27	Attorney Docket Number
OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS				
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.		
	112	Kurachi et al. "Role of Intron I in Expression of the Human Factor IX Gene", Journal of Biological Chemistry, 270(10): 5276-5281, 1995.		
	113	Carlone et al. "Embryonic Modulation of Basic Fibroblast Growth Factor in the Rat Uterus", Biology of Reproduction, 49(4): 653-665, 1993.		
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				Considered
Signature				

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Sheet	6	Of	27	
			Attorney Docket Number	30337
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Signature				Considered

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>			Application Number	10/559,925
Sheet	7	Of	Filing Date	May 02, 2006
			First Named Inventor	Oron YACOBY-ZEEVI et al
			Group Art Unit	1644
			Examiner Name	DIBRINO, MARIANNE NMN
Sheet	7	Of	27	Attorney Docket Number
				30337
OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS				
	142	Kronenwett et al. "Oligodeoxyribonucleotide Uptake in Primary Human Hematopoietic Cells Is Enhanced by Cationic Lipids and Depends on the Hematopoietic Cell Subset", Blood, 91(3): 852-862, 1998.		
	143	Flanagan et al. "Potent and Selective Gene Inhibition Using Antisense Oligodeoxynucleotides", Molecular and Cellular Biochemistry, 172: 213-225, 1997.		
	144	Aoki et al. "In Vivo Transfer Efficiency of Antisense Oligonucleotides Into the Myocardium Using HVJ-Liposome Method", Biochemical and Biophysical Research Communications, 231: 540-545, 1997.		
	145	Jayaraman et al. "Rational Selection and Quantitative Evaluation of Antisense Oligonucleotides", Biochimica et Biophysica Acta, 1520: 105-114, 2001.		
	146	Walton et al. "Prediction of Antisense Oligonucleotide Binding Affinity to A Structured RNA Target", Biotechnology and Bioengineering, 65(1): 1-9, 1999.		
	147	Wang et al. "Isolation and Characterization of Pseudomonas Aeruginosa Genes Inducible by Respiratory Mucus Derived From Cystic Fibrosis Patients", Mol. Microbiol., 22(5): 1005-1012, 1996. Abstract.		
	148	Davies et al. "Regulation of the Alginate Biosynthesis Gene AlgC in Pseudomonas Aeruginosa During Biofilm Development in Continuous Culture", Appl. Environ. Microbiol., 61(3): 860-867, 1995. Abstract.		
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	150	Ofek et al. "Bacterial Adhesion to Cells and Tissues", Chapman & Hall, NY, P.114-118, 148-153, 418-423, 420-423, 1994.		
	151	Ghani et al. "Ceftazidime, Gentamicin, and Rifampicin, in Combination, Kill Biofilms of Mucoi Pseudomonas Aeruginosa", Can. J. Microbiol., 43(11): 999-1004, 1997. Abstract.		
	152	Gabriel et al. "In Vitro Adherence of Pseudomonas Aeruginosa to Four Intraocular Lenses", J. Cataract Refract Surg., 24: 124-129, 1998.		
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	154	Hatano et al. "Biologic Activities of Antibodies to the Neutral-Polysaccharide Component of the Pseudomonas Aeruginosa Lipopolysaccharide Are Blocked by O Side Chains and Mucoid Exopolysaccharide (Alginate)", Infect. Immun., 63(1): 21-26.		
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			Examiner Name	DIBRINO, MARIANNE NMN	
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OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS					
	155	Meluleni et al. "Mucoid Pseudomonas Aeruginosa Growing in A Biofilm In Vitro Are Killed by Opsonic Antibodies to the Mucoid Exopolysaccharide Capsule But Not by Antibodies Produced During Chtonic Lung Infection in Cystic Fibrosis Patients", J. Immun., 155(4): 2029-2038, 1995. Abstract.			
	156	Vernet et al. "Virulence Factors (Aerobactin and Mucoid Phenotype) in Klebsiella Pneumoniae and Escherichia Coli Blood Culture Isolates", FEMS Microbiol. Lett., 130(1): 51-57, 1995. Abstract.			
	157	Pier et al. "How Mutant CFTR May Contribute to Pseudomonas Aeruginosa Infection in Cystic Fibrosis", Am. J. Respir. Crit. Care Med., 154(4): S175-S182, 1996. Abstract.			
	158	Pier et al. "Cystic Fibrosis Transmembrane Conductance Regulator Is An Epithelial Cell Receptor for Clearance of Pseudomonas Aeruginosa From the Lung", Proc. Natl. Acad. Sci. USA, 94(22): 12088-12093, 1997.			
	159	Boucher et al. "Mucoid Pseudomonas Aeruginosa in Cystic Fibrosis: Characterization of Muc Mutations in Clinical Isolates and Analysis of Clearance in A Mouse Model of Respiratory Infection", Infect. Immun., 65(9): 3838-3846, 1997. Abstract.			
	160	Boucher et al. "Two Distinct Loci Affecting Conversion to Mucoidy Pseudomonas Aeruginosa in Cystic Fibrosis Encode Homologs of the Serine Protease HtrA", J. Bacteriol., 178(2): 511-523, 1996. Abstract.			
	161	Yu et al. "Microbial Pathogens in Cystic Fibrosis: Pulmonary Clearance of Mucoid Pseudomonas Aeruginosa and Inflammation in A Mouse Model of Repeated Respiratory Challenge", Infection and Immunity, 66(1): 280-288, 1998.			
	162	Van Heeckeren et al. "Excessive Inflammatory Response of Cystic Fibrosis Mice to Bronchopulmonary Infection With Pseudomonas Aeruginosa", J. Clin. Invest., 100(11): 2810-2815, 1997.			
	163	Cai et al. "Comparison of Sputum Processing Techniques in Cystic Fibrosis", Pediatr. Pulmonol., 22(6): 402-407, 1996. Abstract.			
	164	Hatch et al. "Alginate Lyase Promotes Diffusion of Aminoglycosides Through the Extracellular Polysaccharide of Mucoid Pseudomonas Aeruginosa", Antimicrob. Agents. Chemother., 42(4): 974-977, 1998. Abstract.			
	165	Speert et al. "Modulation of Macrophage Function for Defense of the Lung Against Pseudomonas Aeruginosa", Behring Inst. Mitt., 98: 274-282, 1997. Abstract.			
	166	Pina et al. "The Role of Fluoroquinolones in the Promotion of Alginate Synthesis and Antibiotic Resistance in Pseudomonas Aeruginosa", Curr. Microbiol., 35(2): 103-108, 1997. Abstract.			
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				Examiner Name	DIBRINO, MARIANNE NMN
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OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS					
	167	Mengistu et al. "Continuous Culture Studies on the Synthesis of Capsular Polysaccharide by Klebsiella Pneumoniae K1", J. Appl. Bacteriol., 76(5): 424-430, 1994. Abstract.			
	168	Hsueh et al. "Invasive Streptococci Pneumoniae Infection Associated With Rapidly Fatal Outcome in Taiwan", J. Formos Med. Assoc., 95(5): 364-371, 1996. Abstract.			
	169	Moses et al. "Relative Contributions of Hyaluronic Capsule and M Protein to Virulence in A Mucoi Strain of the Group A Streptococcus", Infect. Immun., 65(1): 64-71, 1997.			
	170	Scott et al. "Visualization of An Extracellular Mucoi Layer of Treponema Denticola ATCC 35405 and Surface Sugar Lectin Analysis of Some Treponema Species", Oral Microbiol. Immunol., 12(2): 121-125, 1997. Abstract.			
	171	Nilsson et al. "The Role of Staphylococcal Polysaccharide Microcapsule Expression in Septicemia and Septic Arthritis", Infect. Immun., 65(10): 4216-21, 1997. Abstract.			
	172	Wessels et al. "Effects on Virulence of Mutations in A Locus Essential for Hyaluronic Acid Capsule Expression in Group A Streptococci", Infect. Immun., 62(2): 433-441, 1994. Abstract.			
	173	Farndale et al. "A Direct Spectrophotometric Microassay for Sulfated Glycosaminoglycans in Cartilage Cultures", Connective Tissue Research, 9: 247-248, 1982.			
	174	Pasquier et al. "Implication of Neutral Polysaccharides Associated to Alginate in Inhibition of Murine Macrophage Response to Pseudomonas Aeruginosa", FEMS Microbiol. Lett., 147(2): 195-202, 1997. Abstract.			
	175	Marty et al. "Influence of Nutrient Media on the Chemical Composition of the Exopolysaccharide From Mucoi and Non-Mucoi Pseudomonas Aeruginosa", FEMS Microbiol. Letters, 77(1-3): 35-44, 1992. Abstract.			
	176	Jorba et al. "Variations in the P. Aeruginosa Polysaccharide Synthesis Conditioned by Aminosugars", Rev. Esp. Fisiol., 36(2): 155-161, 1980. Abstract.			
	177	Ramos et al. "Relationship Between Glycolysis and Exopolysaccharide Biosynthesis in Lactococcus Lactis", Appl. Environ. Microbiol., 67(1): 33-41, 2001. Abstract.			
	178	Bhaskar et al. "Dysregulation of Proteoglycan Production by Intrahepatic Biliary Epithelial Cells Bearing Defective (Delta-f508) Cystic Fibrosis Transmembrane Conductance Regulator", Hepatology, 27(1): 7-14, 1998. Abstract.			
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			Attorney Docket Number	30337
OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS				
179	Vogel et al. "Production of Proteoglycans by Human Lung Fibroblasts (IMR-90) Maintained in A Low Concentration of Serum", Biochem. J., 207(3): 369-379. Abstract.			
180	Hill et al. "Organ-Specific Over-Sulfation of Glycosaminoglycans and Altered Extracellular Matrix in A Mouse Model of Cystic Fibrosis", Biochem. Mol. Med., 62(1): 113-122, 1997. Abstract.			
181	Welch et al. "Complex Saccharide Metabolism in Cystic Fibrosis Fibroblasts", Pediatr. Research, 9(9): 698-702, 1975.			
182	Rahmoune et al. "Chondroitin Sulfate in Sputum From Patients With Cystic Fibrosis and Chronic Bronchitis", Am. J. Resp. Cell & Mol. Biol., 5(4): 315-320, 1991. Abstract.			
183	Beuth et al. "Lectin-Mediated Bacterial Adhesion to Human Tissue", Eur. J. Clin. Microbiol., 6(5): 591-593, 1987. Abstract.			
184	Allison et al. "Polysaccharide Production in Pseudomonas Cepacia", J. Basic. Microbiol., 34(1): 3-10, 1994. Abstract.			
185	Albus et al. "Staphylococcus Aureus Capsular Types and Antibody Response to Lung Infection in Patients With Cystic Fibrosis", J. Clin. Microbiol., 26(12): 2505-2509, 1988. Abstract.			
186	Maccone et al. "Mucoid Escherichia Coli in Cystic Fibrosis", The New England Journal of Medicine, 304(24): 1445-1449, 1981. Abstract.			
187	Tatnell et al. "Characterisation of Alginates From Mucoid Strains of Pseudomonas Aeruginosa", Biochemical Society Transactions, 24: 404S, 1996.			
188	Tatnell et al. "Chemical Analysis of Alginates From Mucoid Strains of Pseudomonas Aeruginosa", Biochemical Society Transactions, 22: 310S, 1994.			
189	Tatnell et al. "Colonisation of Cystic Fibrosis Patients by Non-Mucoid Pseudomonas Aeruginosa - Characterisation of the Alginate From Mucoid Variants", Biochemical Society Transactions, 24: 406S, 1996.			
190	Drigues et al. "Comparative Studies of Lipopolysaccharide and Exopolysaccharide From A Virulent Strain of Pseudomonas Solanacearum and From Three Avirulent Mutants", Journal of Bacteriology, 162(2): 504-509, 1985. Abstract.			
191	Sutherland "Structure-Function Relationships in Microbial Exopolysaccharides", Biotech. Adv., 12: 393-448, 1994.			
192	Anatolii "Hyaluronic Capsule as One of the Factors of Hemolytic Streptococcus Pathogenicity", Chem. Abstracts 86(17): 339, 1977. Abstr. 118714 in Zh. Mikrobiol. Epidemiol. Immunobiol., 2: 22-27, 1977.			
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Sheet	11	Of	27	Attorney Docket Number	Complete if Known
				10/559,925	
				OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS	
	193	Gospodarowicz et al. "Permissive Effect of the ExtraCellular Matrix on Cell Proliferation In Vitro", Proc. Natl. Acad. Sci. USA., 77(7): 4094-4098, 1980.			
	194	Li et al. "Immunochemical Localization of Heparanase in Mouse and Human Melanomas", Int. J. Cancer, 45: 1088-1095, 1990.			
	195	Soule et al. "Isolation and Characterization of A Spontaneously Immortalized Human Breast Epithelial Cell Line, MCF-10 ¹ ", Cancer Res., 50: 6075-6086, 1990. Abstract.			
	196	Miller et al. "Xenograft Model of Progressive Human Proliferative Breast Disease", J. Nat. Cancer Inst., 85: 1725-1732, 1993. Abstract.			
	197	Nakajima et al. "Heparan Sulfate Degradation: Relation to Tumor Invasion and Metastatic Properties of Mouse B16 Melanoma Sublines", Science, 220: 611-613, 1983.			
	198	Kosir et al. "Early Human Breast Carcinoma Cells Produce Extra Cellular Heparanase", Molecular Biology/Biochemistry, Proceedings of the American Association for Cancer Research, 37: 495, 1996. Suppl. IDS in 22716;			
	199	Laskov et al. "Production of Heparanase by Normal and Neoplastic Murine - B-Lymphocytes", International Journal of Cancer, 47(1): 92-98, 1991.			
	200	Cordon-Cardo et al. "Expression of Basic Fibroblast Growth Factor in Normal Human Tissue", Laboratory Investigation, 63(6): 832-840, 1990. Abstract.			
	201	Hillier et al. "The WashU-Merck EST Project", No. N30824, Database GenBank on STN, US National Library of Medicine (Bethesda MD), 1996.			
	202	Hillier et al. "The WashU-Merck EST Project", No. N30845, Database GenBank on STN, US National Library of Medicine (Bethesda MD), 1996.			
	203	Konstan et al. "Current Understanding of the Inflammatory Process in Cystic Fibrosis", Pediatric Pulmonology, 24: 137-142, 1997.			
	204	Dasgupta et al. "Reduction in Viscoelasticity in Cystic Fibrosis Sputum In Vitro Using Combined Treatment With Nacystelyn and RhDNase", Pediatric Pulmonology, 22: 161-166, 1996.			
	205	Boat et al. "Biochemistry of Airway Mucus Secretions", Fed. Proc., 39(13): 3067-3074, 1980. Abstract.			
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207	Cheng et al. "Increased Sulfaton of Glycoconjugates NY Cultured Nasal Epithelial Cells From Patients With Cystic Fibrosis", J. Clin. Invest., 84(1): 68-72, 1989. Abstract.			
208	Boat et al. "Epithelial Cell Dysfunction in Cystic Fibrosis: Implications for Airways Disease", Acta Paediatr. Scand. Suppl., 363: 25-29, 1989.			
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211	Moser et al. "Chronic Pseudomonas Aeruginosa Lung Infection Is More Severe in Th2 Responding BALB/c Mice Compared to Th1 Responding C3H/HeN Mice", APMIS, 105(11): 838-842, 1997. Abstract.			
212	Zahm et al. "Early Alterations in Airway Mucociliary Clearance and Inflammation of the Lamina Propria in CF Mice", Am. J. Physiol., 272(3 Pt 1): C853-C859, 1997. Abstract.			
213	Thompson et al. "Identification of Chondroitin Sulfate E in Human Lung Mast Cells", J. Immunol., 140(8): 2708-2713, 1988. Abstract.			
214	Giuffre et al. "Monocyte Adhesion to Activated Aortic Endothelium: Role of L-Selectin and Heparan Sulfate Proteoglycans", J. Cell Biol., 136(4): 945-956, 1997. Abstract.			
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216	Leong et al. "Different Classes of Proteoglycans Contribute to the Attachment of Borrelia Burgdorferi to Cultured Endothelial and Brain Cells", Infect. Immun., 66(3): 994-999, 1998. Abstract.			
217	Asagoe et al. "Effect of Heparin on Infection of Cells by Equine Arteritis Virus", J. Vet. Med. Sci., 59(8): 727-728, 1997. Abstract.			
218	Krusat et al. "Heparin-Dependent Attachment of Respiratory Syncytial Virus (RSV) to Host Cells", Arch. Virol., 142(6): 1247-1254, 1997. Abstract.			
219	Hagiwara et al. "Inhibitory Effect of Heparin on Red Blood Cell Invasion by Theileria Sergenti Merozoites", Int. J. Parasitol., 27(5): 535-539, 1997. Abstract.			
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>			Application Number	10/559,925
			Filing Date	May 02, 2006
			First Named Inventor	Oron YACOBY-ZEEVI et al
			Group Art Unit	1644
			Examiner Name	DIBRINO, MARIANNE NMN
Sheet	13	Of	27	Attorney Docket Number
OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS				
221	Jusa et al. "Effect of Heparinon Infection of Cells by Porcine Reproductive and Respiratory Syndrome Virus", Am. J. Vet. Res., 58(5): 488-491, 1997. Abstract.			
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		OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS		
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		Examiner Name		DIBRINO, MARIANNE NMN
Sheet	15	Of	27	Attorney Docket Number
		OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS		
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260	Vlodavsky et al. "Involvement of the ExtraCellular Matrix, Heparin Sulfate Proteoglycans, and Heparin Sulfate Degrading Enzymes in Angiogenesis and Metastasis", <i>Tumor Angeogenesis</i> , P.125-140, 1997.			
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264	Kizaki et al. "Cloning and Localization of Heparanase in Bovine Placenta", <i>Placenta</i> , 24: 424-430, 2003.			
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Sheet	16	Of	27	Attorney Docket Number	30337
OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS					
	265	Dempsey et al. "Heparanase Expression in Invasive Trophoblasts and Acute Vascular Damage", Glycobiology, 10(5): 467-475, 2000. Abstract, P.470, Col.1 - P.471, Col.1, P.472, Col.1, § 4 - Col.2, § 2.			
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			First Named Inventor	Oron YACOBY-ZEEVI et al
			Group Art Unit	1644
			Examiner Name	DIBRINO, MARIANNE NMN
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		OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS		
	294	Bendig et al. "Humanization of Rodent Monoclonal Antibodies by CDR Grafting", Methods in Enzymology, 8: 83-93, 1995.		
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Complete if Known	
Substitute for form 1449A/PTO				Application Number	10/559,925
				Filing Date	May 02, 2006
				First Named Inventor	Oron YACOBY-ZEEVI et al
				Group Art Unit	1644
				Examiner Name	DIBRINO, MARIANNE NMN
Sheet	19	Of	27	Attorney Docket Number	30337
OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS					
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Sheet	21	Of	27	Attorney Docket Number	30337
OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS					
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First Named Inventor	Oron YACOBY-ZEEVI et al
Group Art Unit	1644
Examiner Name	DIBRINO, MARIANNE NMN

Sheet	22	Of	27	Attorney Docket Number	30337
OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS					
	354	Bartlett et al. "Comparative Analysis of the Ability of Leucocytes, Endothelial Cells, and Platelets to Degrade the Subendothelial Basement Membrane: Evidence for Cytokine Dependence and Detection of A Novel Sulfatase", Immunology and Cell Biol., 73: 113-124, 1995.			
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			Examiner Name	DIBRINO, MARIANNE NMN
Sheet	23	Of	27	Attorney Docket Number
OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS				
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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Complete if Known	
Application Number	10/559,925
Filing Date	May 02, 2006
First Named Inventor	Oron YACOBY-ZEEVI et al
Group Art Unit	1644
Examiner Name	DIBRINO, MARIANNE NMN

Sheet	25	Of	27	Attorney Docket Number	30337
				OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS	
	396	Shekhar et al. "Correlation of Differences in Modulation of Ras Expression With Metastatic Competence of Mouse Mammary Tumour Subpopulations", Invasion Metastasis, 14: 27-37, 1994/5.			
	397	Durand et al. "Active-Site Motifs of Lysosomal Acid Hydrolases: Invariant Features of Clan GH-A Glycosyl Hydrolases Deduced From Hydrophobic Cluster Analysis", Glycobiology, 7(2): 277-284, 1997.			
	398	Korb et al. "Stimulation of Gene Expression by Introns: Conversion of An Inhibitory Intron to A Stimulatory Intron by Alteration of the Splice Donor Sequence", Nucleic Acids Research, 21(25): 5901-5908, 1993.			
	399	Fairbanks et al. "Processing of the Human Heparanase Precursor and Evidence that the Active Enzyme Is A Heterodimer", The Journal of Biological Chemistry, 274(42): 29587-29590, 1999.			
	400	Linhardt et al. "Polysaccharide Lyases", Applied Biochemistry and Biotechnology, 12: 135-176, 1986.			
	401	Dempsey et al. "Heparanase, A Potential Regulator of CellMatrix Interactions", TIBS, 25(8): 349-351, 2000. P.350, Col.1, § 1, Col.3, § 1, Claims 1-24.			
	402	Niwa et al. "Efficient Selection for High-Expression Transfectants With A Novel Eukaryotic Vector", Gene, 108(2): 193-199, 1991. Abstract.			
	403	Mirault et al. "Transgenic Glutathione Peroxidase Mouse Models for Neuroprotection Studies", Ann. NY Acad. Sci., 738: 104-115, 1994. Abstract.			
	404	Lampard et al. "Secretion of Foreign Proteins Mediated by Chicken Lysozyme Gene Regulatory Sequences", Biochem. Cell Biol., 80(6): 777-788, 2002. Abstract.			
	405	Morrison et al. "Sequences in Antibody Molecules Important for Receptor-Mediated Transport Into the Chicken Egg Yolk", Mol. Immunol., 38(8): 619-625, 2002.			
	406	Richards et al. "Construction and Preliminary Characterization of the Rat Casein and Alpha-Lactalbumin cDNA Clones", J. Biol. Chem., 256(1): 526-32, 1981.			
	407	Campbell et al. "Comparison of the Whey Acidic Protein Genes of the Rat and Mouse", Nucleic Acids Res., 12(22): 8685-8697, 1984.			
	408	Gorodetsky et al. "Isolation and Characterization of the Bos Taurus β-Casein Gene", Gene, 66: 87-96, 1988. Abstract.			
	409	Benezra et al. "Thrombin Enhances the Degradation of Heparan Sulfate in the Extracellular Matrix by Tumor Cell Heparanase", Exptl. Cell. Res., 201: 208-215, 1992.			
	410	Harlow et al. "Antibodies - A Laboratory Manual", Cold Spring Harbor Press, P. 471-510, 1988.			
	411	Murray et al. "The Extracellular Matrix", Harper's Biochemistry, McGraw-Hill Professional, 24th Ed., Chap.57, P.667-685, 1998.			
	412	Selvan et al. "Heparan Sulfate in Immune Responses", Ann. NY Acad. Sci., 797: 127-139, 1996.			
	413	Prockop "Marrow Stromal Cells as Stem Cells for Nonhematopoietic Tissues", Science, 276: 71-74, 1997.			
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Sheet	26	Of	27	Attorney Docket Number	30337
OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS					
	414	Pomahac et al. "Tissue Engineering of Skin", Crit. Rev. Oral Biol. Med., 9(3): 333-344, 1998. Abstract.			
	415	Benathan et al. "Living Epidermal and Dermal Substitutes for Treatment of Severely Burned Patients", Rev. Med. Suisse Romande, 118(2): 149-153, 1998. Abstract-			
	416	Wang et al. "Basic Fibroblast Growth Factor Enhances Bone-Graft Incorporation: Dose and Time Dependence in Rats", J. Orthop. Res., 14(2): 316-323, 1996. Abstract.			
	417	Garner "Epidermal Regulation of Dermal Fibroblast Activity", Plast. Reconstr. Surg., 102(1):135-139, 1998. Abstract.			
	418	Raghunath et al. "Cultured Epithelial Autografts: Diving From Surgery Into Matrix Biology", Pediatr. Surg. Int., 12(7): 478-483, 1997. Abstract.			
	419	Maillard et al. "Pre-Treatment With Elastase Improves the Efficiency of Percutaneous Adenovirus-Mediated Gene Transfer to the Arterial Media", Gene Therapy, 5: 1023-1030, 1998.			
	420	Wang "Basic Fibroblast Growth Factor for Stimulation of Bone Formation in Osteoinductive or Conductive Implants", Acta Orthop. Scand. Suppl., 269: 1-33, 1996. Abstract.			
	421	Wang "Basic Fibroblast Growth Factor Infused at Different Times During Bone Graft Incorporation. Titanium Chamber Study in Rats", Acta Orthop. Scand., 67(3): 229-236, 1996. Abstract.			
	422	Aspberg et al. "Fibroblast Growth Factor Stimulates Bone Formation. Bone Induction Studied in Rats", Acta Orthop. Scand., 60(4): 473-476, 1989. Abstract.			
	423	Aspberg et al. "Dose-Dependent Stimulation of Bone Induction by Basic Fibroblast Growth Factor in Rats", Acta Orthop. Scand., 62(5): 481-484, 1991. Abstract.			
	424	Matoba et al. "Evaluation of Omental Implantation for Perforated Gastric Ulcer Therapy: Findings in A Rat Model", J. Gastroenterol., 31(6): 777-784, 1996. Abstract.			
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Sheet 1 Of 2 Attorney Docket Number 25677

FOREIGN PATENT DOCUMENTS

Examiners Initials	Cite No. ¹	Foreign Patent Documents			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, columns, lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office ³	Number ⁴	Kind Code ⁵ (if known)				
	/	WO	03/006645		IMCLONE SYSTEMS INC.	01-23-2003		
Examiner Signature						Date Considered		

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Sheet	2	Of	2	Attorney Docket Number
OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS				
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.		
	✓	Vlodavsky et al, "Inhibition of tumor metastasis by heparanase inhibiting species of heparin", <i>Invasion Metastasis</i> . 1994;9(1-6):290-302 (abstract)		T ²
	✓	Parish et al, "Evidence that sulphated polyaccharides inhibit tumour metastasis by blocking tumour-cell-derived heparanases". <i>Int J Cancer</i> . 1987 Oct 15;40(4):511-8.		
	✓	Lider et al, "Suppression of experimental autoimmune diseases and prolongation of allograft survival by treatment of animals with low doses of heparins", <i>J Clin Invest</i> . 1989 Mar;83(3):752-6.		
	✓	Gewirtz et al, "Nucleic acid therapeutics: state of the art and future prospects", <i>Blood</i> . 1998 Aug 1;92(3):712-36.		
	✓	Hida et al, "Antisense E1AF transfection restrains oral cancer invasion by reducing matrix metalloproteinase activities", <i>Am J Pathol</i> . 1997 Jun;150(6):2125-32 (abstract)		
	✓	Thuong et al, "Sequence-specific recognition and modification of double-helical DNA by oligonucleotides", <i>Angew. Chem Int. Ed. Engl.</i> , 32:666-690, 1993		
		Cohen, JS, "Oligonucleotide therapeutics". <i>Trends Biotechnol</i> , 10(3):87-91, 1992 (abstract)		
	✓	Szczylik et al, "Selective inhibition of leukemia cell proliferation by BCR-ABL antisense oligodeoxynucleotides", <i>Science</i> . 1991 Aug 2;253(5019):562-5. (abstract)		
	✓	Calabretta et al, "Normal and leukemic hematopoietic cells manifest differential sensitivity to inhibitory effects of c-myb antisense oligodeoxynucleotides: an in vitro study relevant to bone marrow purging", <i>Proc Natl Acad Sci U S A</i> . 1991 Mar 15;88(6):2351-5.		
	✓	Burch et al, "Oligonucleotides antisense to the interleukin 1 receptor mRNA block the effects of interleukin 1 in cultured murine and human fibroblasts and in mice", <i>J Clin Invest</i> . 88(4):1190-1196. 1991 (abstract)		
	✓	Agrawal S., "Antisense oligonucleotides as antiviral agents", <i>Trends Biotechnol</i> , 10(5):152-158, 1992, (abstract)		
	✓	Uno et al, "Antisense-mediated suppression of human heparanase gene expression inhibits pleural dissemination of human cancer cells". <i>Cancer Res</i> . 2001 Nov 1;61(21):7855-60.		
Examiner Signature				Date Considered

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Application Number	10/645,659
Filing Date	08/22/2003
First Named Inventor	YACOBY-ZEEVI
Group Art Unit	1635
Examiner Name	

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